NAIP 2007 - 1m (RGBIR) - Arizona

Metadata also available as

Metadata:

Identification_Information:

Citation:

Citation_Information:

Originator: USDA-FSA-APFO Aerial Photography Field Office
Publication_Date: 20080109
Title: NAIP 2007 - 1m (RGBIR) - Arizona
Geospatial_Data_Presentation_Form: vector digital data
Publication_Information:

Publication_Place: Salt Lake City, Utah
Publisher: USDA-FSA-APFO Aerial Photography Field Office

Online_Linkage:

Description:

Abstract:
This data set contains imagery from the National Agriculture Imagery Program (NAIP). NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S. A primary goal of the NAIP program is to enable availability of of ortho imagery within one year of acquisition. NAIP provides four main products: 1 meter ground sample distance (GSD) ortho imagery rectified to a horizontal accuracy of within +/- 5 meters of reference digital ortho quarter quads (DOQQ's) from the National Digital Ortho Program (NDOP); 2 meter GSD ortho imagery rectified to within +/- 10 meters of reference DOQQs; 1 meter GSD ortho imagery rectified to within +/- 6 meters to true ground; and, 2 meter GSD ortho imagery rectified to within +/- 10 meters to true ground. The tiling format of NAIP imagery is based on a 3.75' x 3.75' quarter quadrangle with a 300 meter buffer on all four sides. NAIP quarter quads are formatted to the UTM coordinate system using NAD83. NAIP imagery may contain as much as 10% cloud cover per tile.

Purpose:
NAIP imagery is available for distribution within 60 days of the end of a flying season and is intended to provide current information of agricultural conditions in support of USDA farm programs. For USDA Farm Service Agency, the 1 meter GSD product provides an ortho image base for Common Land Unit boundaries and other data sets. The 1 meter NAIP imagery is generally acquired in projects covering full states in cooperation with state government and other federal agencies who use the imagery for a variety of purposes including land use planning and natural resource assessment. With an annual cycle, NAIP is also used for disaster response often providing the most current pre-event imagery. While suitable for a variety of uses the 2 meter GSD NAIP imagery is primarily intended to assess crop condition and compliance to USDA farm program conditions. The 2 meter imagery is generally acquired only for agricultural areas within state projects.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2007 June/July

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Irregular

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -115.096023
East_Bounding_Coordinate: -108.858762
North_Bounding_Coordinate: 37.102058
South_Bounding_Coordinate: 31.255494

Keywords:

Theme:

Theme_Keyword: farming
Theme_Keyword: Digital Ortho rectified Image
Theme_Keyword: Ortho Rectification
Theme_Keyword: Quarter Quadrangle Centered
Theme_Keyword: NAIP
Theme_Keyword: Aerial Compliance
Theme_Keyword: Compliance

Place:

Place_Keyword_Thesaurus: Geographic Names Information System
Place_Keyword: Arizona
Place_Keyword: USA

Access_Constraints: There are no limitations for access.
Use_Constraints:
Imagery may be replaced to address defects found in a small number of products through quality assurance processes. Imagery containing defects that require the acquisition of new imagery, such as excessive cloud cover, specular reflectance, etc., will not be replaced within a NAIP project year.
Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Aerial Photography Field Office (APFO)

Contact_Address:

Address_Type: mailing and physical address
Address: 2222 West 2300 South
City: Salt Lake City
State_or_Province: Utah
Postal_Code: 84119-2020
Country: USA

Contact_Voice_Telephone: 801-844-2922
Contact_Facsimile_Telephone: 801-956-3653
Contact_Electronic_Mail_Address: apfo.sales@slc.usda.gov

Browse_Graphic:

Browse_Graphic_File_Name: None
Browse_Graphic_File_Description: None
Browse_Graphic_File_Type: None

Native_Data_Set_Environment:
Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.2.6.1500

Data_Quality_Information:

Logical_Consistency_Report:
NAIP 3.75 minute tile file names are based on the USGS quadrangle naming convention.
Completeness_Report: None
Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: FSA Digital Orthophoto Specs.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: USDA-FSA-APFO Aerial Photography Field Office
Geospatial_Data_Presentation_Form: remote-sensing image

Type_of_Source_Media: Digital Linear Tape (DLT)
Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20070625

Source_Currentness_Reference: Aerial Photography Date for aerial photo source.

Source_Citation_Abbreviation: Georectifed Image
Source_Contribution: Digital Georectifed Image.

Process_Step:

Process_Description:
Imagery was flown with Leica ADS40 digital sensors to capture 0.9m raw data. Raw data is then downloaded using Leica GPro software into 12 bit TIFF format. The raw TIFF imagery is then georeferenced and reprojected using GPS/INS 200Hz exterior orientation information (x/y/z/o/p/k). Technicians precisely measure ground control and tie points in 3 bands/looks (Back/Nadir/Forward) for each line. The resulting point data, ground control, and orientation data is used to perform a full bundle adjustment. Any blunders are removed, and weak areas are manually supplemented to ensure good coverage of points. Once the point data is cleaned and point coverage is acceptable control points from the prior generation MDOQQ's and source DEM are introduced in the corners and center of the block being adjusted. This control is used to perform any datum shift (x/y/z and rotation) to ensure the new adjusted imagery fits the existing MDOQQ reference imagery. The output from this bundle adjustment process is revised exterior orientation data for the sensor with any GPS/INS, datum, and sensor calibration errors modeled and compensated for. Using this revised EO data orthorectified image strips are created using the USGS DEM. The 10m DEM is used where available and 30m DEM is used elsewhere. The orthorectified strips are overlaid with the existing MDOQQ compressed files to ensure accuracy is met by visual inspection and manually measuring features. Once the accuracy of the orthorectified image strips are validated the strips are processed with a NWG proprietary dodging package that compensates for the bi-directional reflectance function that is caused by the sun's position relative to the image area. This compensated imagery is then imported into Inpho's OrthoVista 4.0 package which is used for the final radiometric balance, mosaic, and DOQQ sheet creation.These final DOQQ sheets contain a 300m minimum buffer. These final DOQQ tiles are edge inspected to the existing MDOQQ sheets for accuracy validation.
Process_Date: 20080109

Process_Step:

Process_Description: Dataset copied.

Process_Step:

Process_Description: Dataset copied.
Source_Used_Citation_Abbreviation: I:\Flight\shapefiles\naip_az_2007

Spatial_Data_Organization_Information:

Indirect_Spatial_Reference: Cochise County, AZ
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 7643

Raster_Object_Information:

Raster_Object_Type: Pixel
Row_Count: 1
Column_Count: 1

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:

UTM_Zone_Number: 12
Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600
Longitude_of_Central_Meridian: -111.000000
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000
False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:

Abscissa_Resolution: 0.000000
Ordinate_Resolution: 0.000000

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137.000000
Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: NAIP_Metadata

Attribute:

Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: AREA

Attribute:

Attribute_Label: PERIMETER

Attribute:

Attribute_Label: ST

Attribute:

Attribute_Label: QQNAME

Attribute:

Attribute_Label: QKEY

Attribute:

Attribute_Label: QUADRANT

Attribute:

Attribute_Label: APFONAME

Attribute:

Attribute_Label: GNIS

Attribute:

Attribute_Label: DY

Attribute:

Attribute_Label: MY

Attribute:

Attribute_Label: SY

Attribute:

Attribute_Label: DX

Attribute:

Attribute_Label: MX

Attribute:

Attribute_Label: SX

Attribute:

Attribute_Label: OLAT

Attribute:

Attribute_Label: OLONG

Attribute:

Attribute_Label: FileName

Attribute:

Attribute_Label: ArcKey

Attribute:

Attribute_Label: USGSID

Attribute:

Attribute_Label: Qdrnt

Attribute:

Attribute_Label: UTM

Attribute:

Attribute_Label: Res

Attribute:

Attribute_Label: SrcImgDate

Attribute:

Attribute_Label: VerDate

Attribute:

Attribute_Label: Shape_Area
Attribute_Definition: Area of feature in internal units squared.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: Band_

Attribute:

Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:

Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape_Leng

Overview_Description:

Entity_and_Attribute_Overview: 32-bit pixels, 4 band color(RGBIR) values 0 - 255
Entity_and_Attribute_Detail_Citation: None

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Supervisor Customer Services Section
Contact_Organization: USDA-FSA-APFO Aerial Photography Field Office

Contact_Address:

Address_Type: mailing and physical address
Address: 2222 West 2300 South
City: Salt Lake City
State_or_Province: Utah
Postal_Code: 84119-2020
Country: USA

Contact_Voice_Telephone: 801-844-2922
Contact_Facsimile_Telephone: 801-956-3653
Contact_Electronic_Mail_Address: apfo.sales@slc.usda.gov

Resource_Description: Downloadable Data
Distribution_Liability:
In no event shall the creators, custodians, or distributors of this information be liable for any damages arising out of its use (or the inability to use it).
Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: GeoTIFF - Georeferenced Tagged Image File Format
Format_Information_Content: Multispectral 4-band
Transfer_Size: 0.991

Digital_Transfer_Option:

Offline_Option:

Offline_Media: CD-ROM
Recording_Format: ISO 9660 Mode 1 Level 2 Extensions

Fees:
Contact the Aerial Photography Field Office for more information

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Metadata_Reference_Information:

Metadata_Date: 20081107
Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USDA-FSA-APFO Aerial Photography Field Office

Contact_Address:

Address_Type: mailing and physical address
Address: 2222 West 2300 South
City: Salt Lake City
State_or_Province: Utah
Postal_Code: 84119-2020
Country: USA

Contact_Voice_Telephone: 801-844-2922

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:

Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile

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